Sarvesh Ramprakash

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PROFILE

Multi-talented and experienced Operations Coordinator in the private spaceflight, biotechnology/R&D and IT sectors, trying to explore opportunities the intersection of the Life Sciences industry and Performance Improvement. Effective communicator with the ability to translate complex business requirements into actionable tasks, and provide innovative and practical solutions.

EDUCATION

George Washington University
Washington, DC   2009 – 2014

program: B.S., Biomedical engineering
minors: biophysics, biology

WORK EXPERIENCE

University of Southern California
Los Angeles, CA   05/2014 – 08/2014
Laboratory Technician I

Set up Prof. James Boedicker's lab at the Seaver Science Center, designed, implemented, and maintained Quartzy-powered inventory database, and assisted undergraduate/graduate students with independent projects clustered around research of natural and engineered syntrophic bacterial communities

NanoRacks, LLC
Washington, DC   09/2013 – 11/2013
Intern, Business Development

Prepared and maintained trade show calendar, organized 100+ person reception with JAXA (Japanese Aerospace Exploration Agency) and international partners, celebrating 100 successful payload launches

WRGW District Radio
Washington, DC   09/2011 – 10/2013
Operations Director

Spearheaded ~$10k renovation of main control room and refactor of WRGW's Web presence, deployed/customized wiki and case tracker, prepared equipment and mixed during live performances

SeQR Pay, Inc.
McLean, VA   05/2013 – 07/2013
Intern, Business Development

Modeled (with both developer and sales department input) and restructured mission-critical Xcode/Bash scripts to automate client-branded mobile marketplace apps (iPad, iPhone),

National Institutes of Health
Bethesda, MD   06/2012 – 08/2012
Intern, Dr. Dhruba Chattoraj's Lab

Modified a MATLAB-based image processing toolkit (MicrobeTracker) for Dr. Chattoraj's research in plasmid replication (using *E.coli* as the model organism); performed routine molecular biology experiments

GWU Academic Technologies
Washington, DC   01/2011 – 12/2011
Staff Assistant

Assisted students, staff with instructional technologies on George Washington University's campus (e.g., printers, lab PCs, AMX touch-screen A/V systems present in some classrooms, etc.); conducted QA sweeps, escalating as needed (using the Remedy ticketing system)

Society for Space Synthetic Biology
bit.ly/synbiospace   12/2010 – PRESENT
Co-Founder

Organized successful letter-writing campaign to have synthetic biology examined by the National Academies of Science as a focus for their drafted Space Technology Roadmaps

Montgomery College
Rockville, MD   2008 – 2009
Student Tutor

Taught students in subjects including chemistry (general->organic), mathematics (calculus->differential equations), physics, biology (introductory->microbiology), statistics

RESEARCH EXPERIENCE

George Washington University   Washington, DC   2012 – 2013
Senior Design Program (mentor: Prof. Matthew Kay)
Researched, designed, and prototyped a situational awareness device for blind/vision-impaired patients; implemented (mixed C/C++) face and text recognition of the user's immediate environs (via head-mounted webcam) and text-to-speech to be narrated to the user via bone conduction

Red Bull Stratos   win.gs/stratosproject   01/2012 – 02/2012
Data analyst, Medical Branch
Processed data generated from Bluetooth/USB life-support monitoring systems on Felix Baumgartner's suit during test jumps, using ROOT

Georgetown University   Washington, DC   2006 – 2007
Intern, Department of Chemistry, Dr. YuYe Tong's lab
Synthesized and characterized bimetallic Cu-Pt nanoparticles with core-shell (Cu core, Pt shell) cubic structure for use as catalysts for direct-methanol fuel cells (DMFCs)

State Universities of New York (SUNY)   Stony Brook, NY   2005 – 2006
Garcia Summer Scholar, Dr. Miriam Rafailovich's Lab
Investigated effects of polymer-supported (PS, PMMA, SAN) catalytic nanoparticles (POSS, Pd,TiO_2), supercritical CO_2, vacuum vapor deposition of Pt on performance of Nafion-based polymer-electrolyte membrane fuel cells (PEMFCs); submitted paper to Siemens competition titled, "Development and Evaluation of Novel Electrocatalytic Thin Films for Optimization of PEMFCs and DMFCs"

SKILLS

Languages/Software/Operating Systems

Java (JS2E), C++, C, Interactive C	Eclipse, NetBeans, Visual Studio
OpenCV, Tesseract, QEMU	Windows, Mac OS, Linux (Debian, Arch)
Pro/Engineer, Cadence PSPICE, MATLAB	Microsoft Office, OpenOffice

Web Frameworks/Platforms

Mailchimp, Tout, Mandrill	FileMaker Pro
Hootsuite, IFTTT, Buffer	WordPress, Joomla, Drupal
Google Analytics	Google AdWords

Materials Science/Chemistry

Atomic force microscopy (AFM)	Chemical vapor deposition (CVD)
Sputtering	Spincasting
IR spectroscopy, thin-layer chromatography	$^{1}H, ^{13}C$ NMR
Supercritical fluid treatment	Nanoparticle synthesis

Biology

Aseptic technique	DNA extraction, amplification (PCR)
DNA sequencing	Bacterial transformation
Light, confocal, phase-contrast microscopy	Fluorescence microscopy
Bacterial culture & identification	Gram staining

AWARDS

University of Michigan Sidney J. and Irene Shipman Scholarship
University of Michigan Engineering Scholarship of Honor
AFCEA NOVA Scholarship
SAE/Tau Beta Pi Engineering Scholarship
George Washington University Alumni Award
George Washington University Guaranteed Grant

LANGUAGES

English
Tamil
French

AFFILIATIONS

University of Michigan Shipman Society
Society of Automotive Engineers
George Washington University Space Society